

Notice of Allowability

Application No.

10/700,800

Examiner

Vincent E. Kovalick

Applicant(s)

ALLEN ET AL.

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's Amendment dated July 5, 2007.
2. ☒ The allowed claim(s) is/are 2-8, 10-15, 18-21, 33-34, 37-39, 41-42, 44-45, 49 and 51 (re-numbered 1-28).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Response to Amendment

1. This Office Action is in response to Applicant's Amendment, dated July 5, 2007, to USPTO Office Action dated April 4, 2007.

The cancellation of claims 1, 9, 16-17, 22-32, 35-36, 40, 43, 46-48 and 50; the amendments to claims 2, 4-6, 8, 10-15 and 18-21 and consideration of Applicant's remarks, are sufficient to place the application in a condition for allowance as set forth hereinbelow.

Allowable Subject Matter

2. Claim 2-8, 10-15, 18-21, 33-34, 37-39, 41-42, 44-45, 49 and 51 are allowed.

3. The following is an examiner's statement of reasons for allowance:

Relative to claim 8, the major difference between the teachings of the prior art of record (USP 6,633,306, Marz et al.; USP 5,784,038, Irwin and Pub. No. US 2002/0001066, Kobayashi) and that of the instant invention is that said prior art of record **does not teach** a display comprising a plurality of receivers arranged with the display elements wherein the receivers are oriented on the display to receive image information from a side of the display opposite of the display surface.

Regarding 11, the major difference between the teachings of said the prior art of record and that of the instant invention is that said prior art of record **does not teach** a display wherein a plurality of receivers are arranged with the display elements over the display surface, the receivers each includes one or more infrared receiving diodes.

Relative to claim 33, the major difference between the teachings of said the prior art of record and that of the instant invention is that said prior art of record **does not teach** a display system comprising: an optically-addressed display including a plurality of display elements adapted to control light within a visible-light spectrum, and a plurality of receivers distributed over the display with the display elements and coupled with the display elements, the receivers being configured to optically receive image information; and a projector configured to project the image information onto the display, wherein the

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projector optically addresses the plurality of display elements via the receivers.

Regarding claim 41, the major difference between the teachings of said the prior art of record and that of the instant invention is that said prior art of record **does not teach** a method for displaying images comprising: optically addressing a plurality of display cells distributed across a display surface by projecting image information associated with an image to be displayed, the display cells each including one or more receiver capable of optically receiving projected image information and one or more display element capable of controlling light within a visible-light spectrum; receiving the image information on a surface of the display; converting the image information into signals corresponding to colors and intensities associated with portions of the image to be displayed; and displaying the image via the plurality of display elements.

Relative to claim 49, the major difference between the teachings of said the prior art of record and that of the instant invention is that said prior art of record **does not teach** a display comprising: a plurality of display elements capable of controlling light within a visible-light spectrum, the display elements being arranged over a display surface of the display; and a plurality of receivers distributed with the display elements over the display surface, the receivers being coupled with the display elements and adapted to receive transmitted image information and activate the display elements in response to, and in correspondence with, the image information, wherein a first display element is associated with a first receiver and a second display element is associated with a second receiver, the first display element being coupled with the second receiver and the second display element being coupled with the first receiver so as to affect a relative brightness of the first and second display elements with respect to each other.

Regarding claim 51, the major difference between the teachings of said the prior art of record and that of the instant invention is that said prior art of record **does not teach** a display system comprising: an optically-addressed display including a plurality of display elements distributed over the display and adapted to control light within a visual light spectrum, and a plurality of visible-light receivers coupled with the display elements, the receivers being distributed over the display within the display elements and configured to optically receive image information; and a projector configured to project the image

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information onto the display, wherein the projector optically addresses the plurality of display elements via the receivers, the projector being configured to contemporaneously project information of a complete image to be displayed and the image information being projected using low-intensity visible-light.

4 Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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To Respond

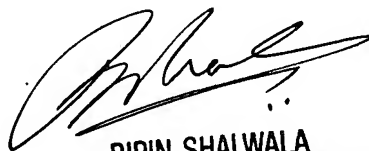
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent E. Kovalick whose telephone number is 571-272-7669. The examiner can normally be reached on Monday-Thursday 7:30- 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Vincent E. Kovalick
July 27, 2007



BIPIN SHALWALA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600